

#### TOXICOLOGY DEPARTMENT

PO BOX 12014, 2 T.W. ALEXANDER DRIVE RESEARCH TRIANGLE PARK, NC 27709 (919) 549-2000 TELEFAX (919) 549-8525 INTERNATIONAL TELEX NUMBER 4999378—ANSWERBACK APC RTP

October 5, 1992



CERTIFIED MAIL
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8EHQ-92-12597

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Office of Toxic Substances
US Environmental Protection Agency
401 M Street, SW
Washington, DC 20460

88920010781

INIT

Attn: Section 8(e) Coordinator (CAP Agreement)

RE: Report Submitted Pursuant to the TSCA Section 8(e) Compliance Audit Program

CAP ID No.: 8ECAP - 0004

Dear Sir/Madam:

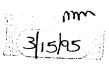
On behalf of Rhône-Poulenc Inc. (RPI, CN 5266, Princeton, NJ 08543-5266) and its subsidiary Rhône-Poulenc Ag Company, the attached study report is being submitted to the Environmental Protection Agency (EPA) pursuant to the Toxic Substances Control Act (TSCA) Section 8(e) Compliance Audit Program and the Agreement for a TSCA Section 8(e) Compliance Audit Program (CAP Agreement) executed by RPI and EPA.

The enclosed study report provides information on MCA 600. The CAS number and name for this chemical are 1079-33-0 and benzo[b]thiophene-4-ol, methylcarbamate. This chemical was synthesized for pesticide research and development approximately 20 to 25 years ago. To our knowledge, a pesticide application on this chemical has never been submitted to EPA under the Federal Insecticide, Fungicide, and Rodenticide Act.

No claims of confidentiality are made for this submission. The title of the enclosed report is "MCA-600 (50% Wettable Powder) Safety Evaluation By: Acute Inhalation Exposure to Rats and Acute Dermal Application to Rabbits". The following is a summary of the adverse effects observed in this study.

This study is being submitted under Section 8(e) because of clinical signs observed during the inhalation study. Groups of 5 male and 5 female rats were exposed to gravimetric concentrations of either 0.95, 5.7, or 8.2 mg/L for one hour. Signs of toxicity consisted of tremors, ataxia, exophthalmos, and excessive salivation. The onset of these signs occurred within 30 minutes after initiation of exposure and persisted for 9 days in the 8.2 mg/L group and for 2 days at the lower levels. The one-hour LC50 was calculated to be 5.7 mg/L. In the dermal study, no systemic toxicity was observed at dose levels up to 2000 mg/kg.

No previous TSCA Section 8(e) notices have been submitted on this chemical, but a total of three submissions will be made under the CAP.



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In total, RPI is submitting three copies of the enclosed report and this cover letter: an original and two copies.

Further questions regarding this submission may be directed to the undersigned at 919-549-2222.

Sincerely,

Glenn S. Simon, PhD, DABT

Director of Toxicology

PHARMACOLOGY

Copy for: W.W. Thillips

TELEPHONE: 437-1600

# WOODARD RESEARCH CORPORATION

LABORATORY AND CONSULTING SERVICE

P.O. BOX 405, HERNDON, VIRGINIA 22070

December 13, 1965

Dr. J. R. Kilsheimer
Manager, Organic Chemicals
Research and Technical Division
Mobil Chemical Company
Metuchen, New Jersey 08840

Dear Doctor Kilsheimer:

Enclosed are 10 copies of a report dealing with the safety evaluation of MCA-600 (50% Wettable Powder) by inhalation exposure in rats and dermal application in rabbits. I believe that the report is self-explanatory. However, if there are any questions or comments, please do not hesitate to let us know.

In your letter dated August 26, 1965, you indicate that an emulsifiable concentrate will be sent to us for testing. As of this date we have not received that material.

Sincerely yours,

Robert P. Beliles, Ph.D. Pharmacologist

RPB: jee

Enclosures

#### MOBIL CHEMICAL COMPANY

### MCA-600 (50% WETTABLE POWDER)

#### SAFETY EVALUATION BY:

#### ACUTE INHALATION EXPOSURE TO RATS

#### ACUTE DERMAL APPLICATION TO RABBITS

MATERIAL TESTED: A cream colored powder labeled:

EXPERIMENTAL INSECTICIDE

MCA-600 (Ent. 27041)

50% Wettable Powder

was received from Mobil Chemical Company on August 24, 1965, and used in the studies described herein.

#### ACUTE INHALATION EXPOSURE TO RATS

PROCEDURE: Thirty rats from The Charles River Breeding Laboratories were acclimated to our laboratory environment for at least one week and then exposed for one hour to an aerosol as follows:

Group	Number per Group	Chamber Concentration MCA-600 (50% Wettable Powdo mg/1
I	5 males, 5 females	8.2
II	5 males, 5 females	5.7
III	5 males, 5 females	0.95

The exposure chamber was 30 liters in capacity and similar to that described by Leach (University of Rochester, Atomic Energy Project Report, UR-629, 1963).

The chamber concentrations were determined gravimetrically, using a 2-inch glass fiber filter (Gelman Type A). By use of UNICO model 2.8 Respirable Dust Sampler, it was estimated that 9 per cent of the aerosol was of aerodynamic size to be considered respirable in man.

Immediately after exposure excess material was removed from the coat, nostrils, and eyes of the experimental animals. The rats were then maintained for 14 days in individual cages and provided food and water ad libitum. Body weights were obtained prior to exposure and at 7 and 14 days. The animals were observed closely during exposure and daily thereafter for signs of toxicity.

The animals which died during exposure or before the fourteenth day were examined for gross changes. The surviving animals were sacrificed, examined for gross changes and the lungs, heart, liver, kidney, and brain weighed.

RESULTS: The mortality 14 days after exposure was as follows:

Chamber Concentration MCA-600 (50% Wettable Powder) mg/1	Mortality
8.2	6/10
5.7	5/10
0.95	0/10

All deaths occurred during exposure or within 24-hours afterward. No marked difference in susceptibility between males and females was noted. An  $LC_{50}$  for MCA-600 (50% wettable powder) of 5.7 mg/l with 95 per cent confidence limits of 1.34-16.4 was obtained by the method of Litchfield and Wilcoxon.

Signs of toxicity consisted of tremors, ataxia, exophthalmos, and excessive salivation. The onset of these signs occurred within 30 minutes after the start of the exposure and lasted for nine days in the animal exposed at a level of 8.2 mg/l and for two days at the lower levels. The body weights in Groups I and II of most animals taken at the seventh day were lower than the initial weights. All animals gained weight between the seventh and fourteenth day.

Necropsy findings consisted of scattered lung hemorrhage in all groups, enlarged right kidney (rat No. 4490 F -  $0.95 \, \text{mg/1}$ ), and pale kidneys (rat No. 4545 M -  $5.7 \, \text{mg/1}$ ).

CONCLUSIONS: On the basis of one hour inhalation exposures of MCA-600 (50% Wettable Powder) at levels of 8.2 mg/l, 5.7 mg/l and 0.95 mg/l in rats, it is concluded that:

The  $LC_{50}$  (1 hour exposure) for MCA-600 (50% wettable powder) is 5.7 mg/l (1.34-16.4).

#### ACUTE DERMAL APPLICATION TO RABBITS

PROCEDURE: Three groups consisting of four adult albino rabbits each were prepared for study by closely clipping the fur on the back and trunk of all animals. Individual rabbit weights ranged between 2.2 and 2.8 kilograms; the rabbits had been acclimated to local conditions for at least one week before the experiment began.

The respective doses of MCA-600 (50% wettable powder) were placed on gauze, moistened with saline, and applied to the backs of the rabbits. Then each animal was wrapped with rubber damming which was fastened in place, and returned to its cage where food and water were readily available. The doses used were 2000, 632, and 200 mg/kg of MCA-600 (50% wettable powder).

After 24 hours the wrappings were removed, residual test material was wiped off and the rabbits were examined for signs of skin irritation and systemic toxicity.

Daily examinations of each rabbit were made for seven days. After this time the rabbits were sacrificed and autopsied.

- 4 -

RESULTS: Data are appended for each rabbit. Skin irritation was confined largely to a slight erythema observed only on the first experimental day. Two rabbits (No, 6458 M - 2000 mg/kg and No. 6472 F - 200 mg/kg) had soft feces for several days after treatment.

Autopsy of the rabbits showed scattered evidence of lung hemorrhage, kidney discoloration, pitted kidneys, and accumulation of peritoneal fluid. These findings, because of lack of dose relationship, were felt to be of doubtful significance.

It is concluded that MCA-600 (50% wettable powder) is a very mild irritant at a single dose of 632 mg/kg or more, but that 200 mg/kg produces no effects on the skin. Furthermore, no systemic toxicity is produced by a single dermal application of 2000 mg/kg of MCA-600 (50% wettable powder).

Robert P. Beliles, Ph.D. Pharmacologist

December 13, 1965

Clara Kidwell, B.S. Analyst

MCA-600

WEEKLY BODY WEIGHTS IN GRAMS FOR MALE RATS

Rat No.	Davs		
E .	0	7	14
	LEVEL - 8.2 MG/	77	
	319	305	349
4564 M 4565 M	331 319	330 Dead	371
	292	Dead	
	264	Dead	
Mean	305	315	355
	LEVEL - 5.7 MG/L	Ţ	
	279	275	310
4544 M	282	249	290
	270	279	318
	320	Dead	
	292	Dead	
Mean	289	268	306
	LEVEL - 0.95 MG/L	77	
	388	905	431
4484 M	486	501	516
	462	799	867
4486 M	421	443	478
4487 M	458	481	515
Mean	443	459	488

MCA-600

		MCA - 600	
	WEEKLY BODY WEIGHTS	IS IN GRAMS FOR FEMALE RATS	
Rat No.		Days	
	0	7	14
	TEVEL	IL - 8.2 MG/L	
4568 F	261	226	243
	250	228	252
	244	Dead	
45/1 F 4572 F	224 218	Dead Dead	
	}		
Mean	239	227	248
	LEVEL	IL - 5.7 MG/L	
	203	181	198
	226	Dead	
	213	208	232
4551 F	213	Dead	
	222	Dead	
Mean	215	195	215
	LEVEL	- 0.95 MG/L	
	269	259	276
	245	259	272
4490 F	262	253	263
	253	250	566
	242	248	263
Mean	254	254	268

MCA-600

RELATIVE ORGAN WEIGHTS IN GRAMS FOR MALE RATS

B B B B B B B B B B B B B B B B B B B	Rat No.	Body Weight	Liver	Lung	Kidney	Brain	Heart
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		50	రు	<b>60</b>	60	60	<b>50</b>
M 373 4.16 0.659 0.885 0.559 M 373 3.68 0.480 0.862 0.534 360 3.79 0.570 0.874 0.547  M 290 4.32 0.719 0.879 0.600 M 318 3.78 0.648 0.884 0.579 M 431 3.43 0.392 0.648 0.428 M 431 3.43 0.392 0.578 M 431 3.43 0.392 0.678 0.428 M 4498 3.78 0.486 0.673 0.400 M 515 3.88 0.486 0.761 0.383  488 3.53 0.580 0.669 0.424				-	T/DW		
M 373 3.68 0.480 0.862 0.534  360 3.79 0.570 0.874 0.547  M 230 2.43 0.710 0.884 0.659  M 290 4.32 0.738 0.884 0.659  M 431 3.84 0.699 0.678 0.476  M 431 3.43 0.392 0.678 0.476  M 438 3.78 0.478 0.678 0.428  M 448 3.78 0.448 0.684 0.693  M 458 3.78 0.486 0.673 0.438  M 458 3.78 0.486 0.679 0.638  M 488 3.53 0.580 0.669 0.424		349	4.16	0.659	0.885	0.559	0.347
360 3.79 0.570 0.874 0.547    IEVEL - 5.7 Mc/L   C.829 0.600 0.529   C.829 0.659     M		37.1	3.68	0.480	0.862	0.534	0.299
360 3.79 0.570 0.874 0.547  1EVEL - 5.7 Mc/L  M 310 3.43 0.710 0.884 0.669  M 290 4.32 0.738 0.910 0.659  M 290 0.609 0.659  3.84 0.699 0.874 0.613  LEVEL - 0.95 MC/L  M 431 3.43 0.392 0.548 0.428  M 448 3.78 0.476 0.673 0.428  M 448 0.486 0.761 0.383  M 515 3.88 0.486 0.761 0.383							
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Medu	360	3.79	0.570	0.874	0.547	0.323
M 310 3.43 0.710 0.829 0.600 0.529 0.559 0.529 0.648 0.884 0.579 0.659 0.659 0.648 0.884 0.579 0.659 0.659 0.648 0.648 0.884 0.579 0.648 0.648 0.659 0.613 0.392 0.569 0.678 0.476 0.478 0.478 0.478 0.478 0.486 0.486 0.400 0.684 0.400 0.488 0.488 0.488 0.488 0.424 0.488 0.424 0.488 0.424							
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M 290 4.32 0.738 0.910 0.659 M 318 3.78 0.648 0.884 0.579 306 3.84 0.699 0.874 0.613    IEVEL - 0.95 MC/L		310	3.43	0.710	0.829	0.600	0.339
M 431 3.78 0.648 0.884 0.579  306 3.84 0.699 0.874 0.613  EEVEL - 0.95 MG/L  LEVEL - 0.95 MG/L  A 431 3.43 0.392 0.548 0.476  M 478 3.22 0.760 0.678 0.428  M 478 3.34 0.785 0.684 0.400  M 515 3.88 0.486 0.761 0.383  488 3.53 0.580 0.669 0.424	4544 M	290	4.32	0.738	0.910	0.659	0.321
306 3.84 0.699 0.874 0.613  LEVEL - 0.95 MC/L  LEVEL - 0.95 MC/L  1.EVEL - 0.95 MC/L  3.22 0.760 0.678 0.428  4.88 3.34 0.785 0.684 0.400  4.88 3.53 0.580 0.669 0.424	7245 M	318	3.78	0.648	0.884	0.579	0,327
306 3.84 0.699 0.874 0.613  LEVEL - 0.95 MC/L  LEVEL - 0.95 MC/L  LEVEL - 0.95 MC/L  LEVEL - 0.95 MC/L  3.22 0.760 0.678 0.428  M 498 3.78 0.478 0.673 0.432  M 478 3.34 0.785 0.684 0.400  M 515 3.88 0.486 0.761 0.383							
H 431 3.43 0.392 0.548 0.476 3.22 0.760 0.678 0.428 0.428 4.78 3.34 0.785 0.684 0.400 0.515 M 515 3.88 0.486 0.761 0.383 0.424 488 3.53 0.580 0.669 0.424	Mean	306	3.84	0.699	0.874	0.613	0,329
M 431 3.43 0.392 0.548 0.476 3.22 0.760 0.678 0.428 0.428 498 3.78 0.478 0.673 0.432 0.673 0.684 0.400 0.785 0.684 0.400 0.383 0.486 0.761 0.383 0.580 0.669 0.424							
M 431 3.43 0.392 0.548 0.476 M 516 3.22 0.760 0.678 0.428 M 498 3.78 0.478 0.673 0.432 M 478 3.34 0.785 0.684 0.400 M 515 3.88 0.486 0.761 0.383					MC/L		
M 516 3.22 0.760 0.678 0.428 M 498 3.78 0.478 0.673 0.432 M 478 3.34 0.785 0.684 0.400 M 515 3.88 0.486 0.761 0.383 488 3.53 0.580 0.669 0.424	4483 M	431	3.43	0.392	0.548	0.476	0.269
M 498 3.78 0.478 0.673 0.432 M 478 3.34 0.785 0.684 0.400 M 515 3.88 0.486 0.761 0.383 488 3.53 0.580 0.669 0.424	4484 M	516	3.22	0.760	0.678	0.428	0.308
M 478 3.34 0.785 0.684 0.400 M 515 3.88 0.486 0.761 0.383 488 3.53 0.580 0.669 0.424	4485 M	498	3.78	0.478	0.673	0.432	0.289
M 515 3.88 0.486 0.761 0.383 488 3.53 0.580 0.669 0.424	7486 M	478	3.34	0.785	0.684	0.400	0.297
488 3.53 0.580 0.669 0.424	4487 M	515	3.88	0.486	0.761	0.383	0.266
488 3.53 0.580 0.669 0.424							
	Mean	488	3.53	0.580	0.669	0.424	0.286

MCA-600

RELATIVE ORGAN WEIGHTS IN GRAMS FOR FEMALE RATS

	Weight	13417	Pung 	Klaney	brain	Heart
	60	60	90	60	60	50
			LEVEL - 8.2 MG/L	MG/L		
ਜ਼ਿ ਜ਼ਿ	243 252	3.73	0.864 0.802	0.802 0.861	0.679	0.354
	248	3.86	0.833	0.832	0.699	0.370
			LEVEL - 5.7 MG/L	MC/L		
ਸ਼ਿਸ਼	198 232	3.64 3.16	0.667	0.813 0.836	0.914 0.784	0.399
	215	3.40	1.43	0.825	0.849	0.383
			LEVEL - 0.95 MG/L	T/SW		
ĹŦĿ	276	3.21	0.630	969.0	0.667	0.391
[±.	272	3.35	0.610	0.676	0.757	0.320
۲ <del>۰</del> .	263	3.24	0.51/	1.06	0.719	0.373
<b>Γ</b> τ.	266	$\frac{3.10}{1.10}$	0.846	0.669	0.684	0.308
r	263	3.58	0.707	0.787	0.757	0.342
	268	3.30	0.662	0.778	0.717	0.347

MCA-600

ABSOLUTE ORGAN WEIGHTS IN GRAMS FOR MALE RATS

Rat No.	Body Weight	Liver	Lungs	Kidneys	Brain	Heart
	8	8	8	ಕ	60	8
			LEVEL - 8.2 MG/L	7/5		
4563 M	349	14.5	2.30	3.09	1.95	1.21
4564 M	3/1	13.7	1./8	3.20	1.90	T
Mean	360	14.1	2.04	3.11	1.97	1.16
			LEVEL - 5.7 MG/L	<u>1/5</u>		
4543 M	310	10.6	2.20	2.57	1.86	1.05
4544 M	290	12.5	2.14	5.64	1.91	0.93
4545 M	318	12.0	2.06	2.81	1.84	1.04
Mean	306	11.7	2.13	2.67	1.87	1.01
			LEVEL - 0.95 MG/L	7/5		
4483 M	431	14.8	1.69	2.36	2.05	1.16
7484 W	516	16.6	3.92	3.50	2.21	1.59
4485 M	867	18.8	2.38	3.35	2.15	1.44
7486 M	478	15.9	3.75	3.27	1.91	1.42
4487 M	515	20.0	2.50	3.92	1.97	1.37
Mean	488	17.2	2.85	3.28	2.06	1.40

MCA-600

ABSOLUTE ORGAN WEIGHTS IN GRAMS FOR FEMALE RATS

Rat No. and Sex	Body Weight	Liver	Lungs	Kidneys	Brain	Heart
	60	60	60	50	60	ω
			LEVEL - 8.2 MC/L	1/21		
4568 E 4569 E	243 252	9.1 10.0	2.10 2.02	1.95	1.65 1.81	0.86
Mean	248	9.55	2.06	2.06	1.73	0,915
			LEVEL - 5.7 MG/L	$\overline{ m C/L}$		
4548 E 4550 E	198 232	7.21	1.32 5.11	1.61 1.94	1.81	0.79
Mean	215	7.28	3.22	1.78	1.83	0.82
			LEVEL - 0.95 MG/I	1/5/T		
	276	8.86	1.74	1.92	1.84	1.08
	263	8.52	1.36	2.79	1.89	0.98
4491 F 4492 F	266 263	8.25 9.41	2.25 1.86	1.78	1.82 1.99	0.82
Mean	268	8.83	1.77	2.08	1.92	0.93

MCA-600

ACUTE DERMAL TOXICITY FOR THE RABBIT

Rabbit No.   Dose   Body weight (RAL)   Edema   2.58   2.61	1	n = 3 - 11 - 3 - 1 - 1 - 1	Davs	
Etythema  Etythe		Eddy Weight KkL Initial Sacrifice 2.58 2.61	2 3 4	6 7
Etythema Clear fluid in peritoneal cavity Clear Etythema Clear fluid in peritoneal cavity Clear Cle	Edema		,	t
Clear fluid in peritoneal cavity   Clear fluid in peritoneal cavity     Edema	Erythema		,	1
Edema       +			Clear fluid in peritoneal cavity	
1	6533 M			
1 Lungs appeared hemorrhagic  2000 2.45 2.50	Edema		,	
Lungs appeared hemorrhagic	Erythema			i
2000 2.45 2.50				
a  No apparent abnormalities  2000 2.85 2.79  +		2.		
a  No apparent abnormalities  2000  2.85  2.79	Едета		1	1
2000 2.85 2.79	Erythema			1
2000 2.85 2.79			No apparent abnormalities	
ma +		2.		
+ Lungs appeared hemorrhagic	Edema			1
Lungs appeared hemorrhagic	Erythema		•	
			Lungs appeared hemorrhagic	

MCA-600

ACUTE DERMAL TOXICITY FOR THE RABBIT

	7		1				•	•			t	•			•	1	
	9		t	t			1	•				•			•	ı	
	5			ı				1			1				ı	ı	slightly hemorrhagic
Davs	7		•	1			•	ı	arasites		í	4	arasites		t	ı	gs slightly
	3		1	ı			•	•	o have pa			•	o have pa		•	•	ed - lungs
	2		ı	1	No abnormalities		1	ı	Liver appeared to have parasites		ı	i	Liver appeared to have parasites		ı	ŧ	Kidneys discolored
			1	ı	No abn		ı	ı	Liver		1	+	Liver		ı	ı	Kidney
inter (ha)	Sacrifice	00.7				2.55				2.48				2.70			
Dod. 110	Initial Sacri	16.7				2.50				2.50				2.78			
	and Sex mg/kg	No. 6534 M 652	Edema	Erythema		No. 6460 M 632	Edema	Erythema		No. 6469 F 632	Edema	Erythema		No. 6470 F 632	Едета	Erythema	

MCA-600

ACUTE DERMAL TOXICITY FOR THE RABBIT

		n. d 110	tobt (kg)			Days				1
Rabbit No. Land Sex	Dose mg/kg	š ,	Sacrifice		2	m	4	5	9	_
No.6461 M	200	2.75	2.89							
Edema				1	ı	ı	i	t	ı	
Erythema				ı	ı	1	ı	ı	1	ı
				No gross	abnormali	No gross abnormalities apparent	tent			
No. 6462 M	200	2.78	2.81							
Edema				ı	ı	ι	ı	ı	•	ŧ
Erythema	-			1	ŧ	ı	•	1	ŧ	1
·				No gross	abnorma11	abnormalities apparent	rent			
No. 6471 F	200	2.18	2.15							
Edema	_\			i	t	ı	ı	ı	t	t
Erythema				t	1	•	ŧ	ı	1	ı
				Kidneys pitted		no other a	- no other abnormalities	8		
No. 6472 F	200 c	2.74	2.90							
Edema				•	ı	ı	•	t	1	ı
Erythema				ı	1	1	1	•	•	t
				Kidneys	pitted -	no other a	Kidneys pitted - no other abnormalities	s S		

## Triage of 8(e) Submissions

Date sent to triage:	0 s 96  259=	7 🛆		N-CAP CA Inventory:	Y	AP D				
Study type (circle appr	opriate):									
Group 1 - Dick Clemen	nts (1 copy tota	1)								
ECO	AQUATO									
Group 2 - Ernie Falke	(1 copy total)									
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Group 3 - Elizabeth M	argosches (1 co	opy each)	and the same of th							
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STREMITTER NAME: RHOOR - POURUNC	Poulenc	6562 INFO REQUESTED (TECH) 6563 INFO REQUESTED (VOL. ACTIONS) 6564 INFO REQUESTED (REPORTING RATIONALE) DISPOSITIONE (AND REFER TO CHEMICAL SCREENING 6578 CAP NOTICE	CH) N. ACTIONS) PORTING RATIONALE) SCREENING	MAC STUDIES PLANNEDATING WEAV MAC LABELANDS CHANGES MAC LABELANDS CHANGES MAC PROCESSARAND, INC. CHANGES MAC APPAISE DISCONTINUED
SUB. DATE: 10/05/92	ONS DATE: 10/13/9.2		CSRAD DATE. 03/15/95	
Benzo [6] thisphene -4-01, methylcorbamode	nene -4-01,	methylcarbamode	1079-33-0	
MCA 600				

INFORMATION TYPE:	2 L	1	DRMATION TITE	211	MACE	MEDINATION TYPE	<b>.</b>	3
0201 ONY WAND (ANIMAL) 0202 ONCO (ANIMAL) 0203 CELL TRANS (IN VITRO) 0204 MUTA (IN VITRO) 0205 MUTA (IN VITRO) 0206 MUTA (IN VITRO) 0206 RES ROYTERATO (HUMAN) 0207 REPRO/TERATO (ANIMAL) 0210 ACUTE TOX. (HUMAN) 0210 ACUTE TOX. (HUMAN) 0211 CHR. TOX. (HUMAN) 0212 SUB ACUTE TOX (ANIMAL) 0213 SUB CHRONIC TOX (ANIMAL) 0213 CHRONIC TOX (ANIMAL)	33	***********	BPYCLIN HUMAN EXPOS (PROD CONTAM) HUMAN EXPOS (ACCEDENTAL) HUMAN EXPOS (ACCEDENTAL) HUMAN EXPOS (ACCEDENTAL) BOOMQUA TOX BNO. OCCOREL FATE EMER. BNCI OF ENV CONTAM RESPORTES REQUEST DELAY PRODCOMPCIEN ED REPORTENO RATIONALE CONFEDENTAL ALLERO (ANEMAN) ALLERO (ANEMAN) METABRITARIANACO (ANEMAN) METABRITARIANACO (ANEMAN)	2-C	5 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	BABACINO (ANIMAL) BABACINO (HUMAN) CHEMATIYS PROP CLASTO (IN VITRO) CLASTO (ANIMAL) CLASTO (HUMAN) DIVA DAMREPAIR PRODAUSE/ROC NSDS OTHER		222222222222222222222222222222222222222
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COMMENTS

YES (DROPALEMEN)

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CAS SR

NO (CONTINUE)

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IN THE PRINCE

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Acute inhalation toxicity is of low concern based on a calculated 1-hour LC50 of  $5.7~g/m^3$  in rats. Mortality and corresponding doses  $(g/m^3)$  were 0/10~(0.95),~5/10~(5.7) and 6/10~(8.2). Clinical signs included tremors and ataxia (all doses), and necropsy findings included lung hemorrhage (all doses), pale kidneys (5.7) and enlarged kidney (0.95).

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Acute dermal toxicity is of low concern based on no mortality (0/4) in rabbits exposed to 200, 632 and 2000 mg/kg. Scattered pathological findings included lung hemorrhage, kidney discoloration, pitted kidneys and peritoneal fluid accumulation.

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Dermal irritation is of low concern based on slight erythema in rabbits exposed to 632 and 2000 mg/kg, and no irritation at 200 mg/kg.